

## PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Wenzhou LUO

Serial No.: 10/531,798

Group No. N/A

Filed: April 18, 2005

Examiner: N/A

For: THE NON-POLLUTION PROCESS OF EXTRACTING ARSENIC IN  
VACUUM AND THE EQUIPMENT THEREOF

Attorney Docket No.: U 015721-3

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450**INFORMATION DISCLOSURE STATEMENT**

We draw the attention of the Examiner to the attached English-language version of an International-type Search Report from a foreign office in respect of counterpart International Application No. PCT/CN03/00857 that indicates the degree of relevance found by the foreign office. The Search Report makes consideration of any non-English art required. MPEP 609.

Applicant's overseas representative provides the following comments regarding the non-English Chinese references.

CN1184856A disclosed a method of extracting arsenic and gold from raw material in the condition of normal pressure roasting reduction. Arsenic is subject to oxidization reaction to produce  $As_2O_3$ , and  $As_2O_3$  is then reduced to element arsenic under high temperature with carbon or  $H_2$ . The result of fine gold is extracted by conventional method.

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**CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8a)**

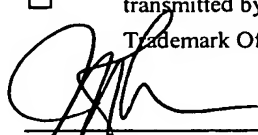
I hereby certify that this correspondence is, on the date shown below, being:

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SignatureDate: June 29, 2005Julian H. Cohen  
(type or print name of person certifying)

CN1045379A disclosed a device used for extracting gold from sulfur and arsenic containing material in the condition of oxidation atmosphere. First, As and S<sub>2</sub> are subject to oxidization reaction to produce As<sub>2</sub>O<sub>3</sub> and SO<sub>2</sub>; As<sub>2</sub>O<sub>3</sub> and SO<sub>2</sub> are then reduced to As and S<sub>2</sub> under reducer (such as SnCl<sub>2</sub> and H<sub>2</sub>); finally, the result of fine gold is extracted by conventional method.

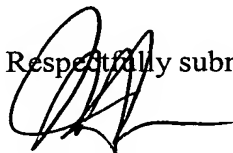
CN1363696A disclosed a method of extracting gold from high sulfur and arsenic containing gold material in oxidation furnace. As<sub>2</sub>O<sub>3</sub> is then reduced to As under reducer of carbon.

CN1096058A disclosed a method of extracting arsenic from raw material with addition agent of K<sub>2</sub>O<sub>3</sub> in oxidation furnace, and As<sub>2</sub>O<sub>3</sub> is then reduced to As under reducer of carbon or H<sub>2</sub>.

Clearly, compared with the references of CN1096058A, CN1363696A, CN1045379A and CN1184856A, PCT/CN03/00857 disclosed a method of extracting arsenic in **vacuum** and the equipment thereof. And arsenic is **not** subject to oxidation reaction to produce As<sub>2</sub>O<sub>3</sub> which is then reduced to arsenic in the condition of reducer atmosphere. Therefore, atmosphere does not involve in the chemical reaction of materials in the furnace under vacuum condition, and radically eliminating the condition in which virulent As<sub>2</sub>O<sub>3</sub> is generated, also radically eliminating the condition in which waste gas and wastewater is generated.

Form PTO-1449 is also attached with reference copies.

Respectfully submitted,



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FORM PTO-1449 U. S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)	ATTY. DOCKET NO.	SERIAL NO.
	U 015721-3	10/531,798
	APPLICANT	
	Wenzhou LUO	
	FILING DATE	GROUP
	APRIL 18, 2005	

## U.S. PATENT DOCUMENTS

EXAMINER INITIALS	REFERENCE DESIGNATION	DOCUMENT NUMBER	DATE	NAME	FILING DATE IF APPROPRIATE
	AA				
	AB				
	AC				
	AD				
	AE				
	AF				
	AG				
	AH				
	AI				
	AJ				
	AK				

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AL	1096058	12/1994	CN		X
	AM	1363696	08/2002	CN		X
	AN	1045379	09/1990	CN		X
	AO	1184856	06/1998	CN		X
	AP					

## OTHER ART (Including Author, Title, Date, Pertinent Dates, Etc.)

	AQ	
	AR	
	AS	

EXAMINER	DATE CONSIDERED
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	